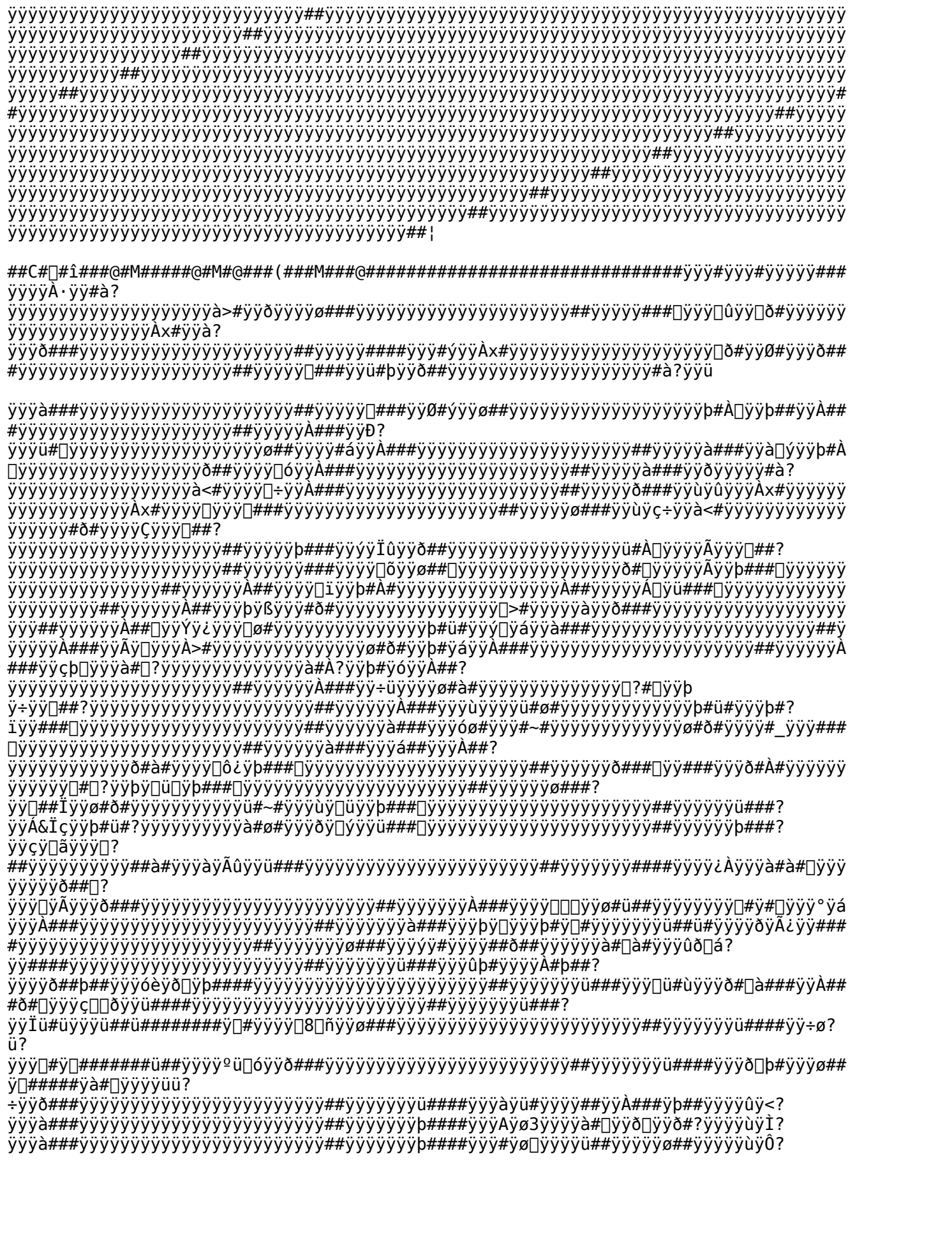

```
#################+########################@ÿ#ÿÿd#########d#########2####9ö´þ·
      ´#ÿÿ ###ÿÿ####Aÿ#ÿÿd#########d######## ###Design AlSiC/AlN MCT/IGBT module
for performance, reliability, and cost evaluation of materials systemModel after
Standard Commercial Half Bridge configuration
```

```
#&#########&#####+###########&#########&###@ÿ□#ÿÿd#########d#########2##□##9ö´þ"
Ä#ÿÿ ###ÿÿ####Aÿ□#ÿÿd#########d#########□###Phase I - Baseplate Materials
EvaluationPhase II - Functional Module Design and                  Evaluation Phase
III - Integral Heat Sink Investigation
```

```
#################+#########################@ÿ□#ÿÿd#########d#########2##□##  öìüw
□#ÿÿ####ÿÿ####Aÿ□#ÿÿd#########d#########Ì###Objective - Evaluate performance,
reliability, and cost of a manufacturable baseplate.Establish baseline footprint
for evaluationCanvas SuppliersProcure materialsEvaluations Thermal ReliabilityCost
```

###ÿÿ####@ÿ□#ÿÿd#########d#########□###Baseline Config Selection Criteria   Large Size for Reliability Test   Industry Standard Size Multiple Module Configurations on single footprint#

```
#3#########

#####$###############+#########(#####$###########3#########3###@ÿ□#ÿÿd#########d##
#######2##□##□õ|ý§
ô#ÿÿ ###ÿÿ####Aÿ□#ÿÿd#########d#########Ï###Form Factor DeterminationInternal
CircuitryInternal StructuresBaseplate Insulation and Metalization PatternHTP Top
Strap Materials EvaluationPower Bussing SchemeControl Bussing SchemeModule
Evaluation#
```

###x######□#######□#######□#######ä###########Advanced Packaging######*###Aluminum
Silicon Carbide Advanced Module##########Pat
Sullivan################################(###c:\msoffice\powerpnt\template\pebb1.pp
t########Pat Sullivan############Microsoft PowerPoint 4.0####@###Æ#□d31»#@#####}#